TIGHE PATTON ARMSTRONG TEASDALE, PLLC

ATTORNEYS AT LAW

1747 PENNSYLVANIA AVENUE, N.W. Third Floor WASHINGTON, DC 20006-4604

TELEPHONE (202) 454-2800 FACSIMILE (202) 454-2805 www.tighepatton.com

STEPHEN L. GOODMAN WRITER'S DIRECT DIAL: (202) 454-2851 EMAIL: sgoodman@tighepatton.com

March 13, 2009

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554

Re:

Ex Parte Meeting -- GN Docket No. 09-29

Dear Ms. Dortch:

Earlier today, Gary Bolton and Mark Ogden of ADTRAN, Inc., along with me, met with Julius Knapp, Ron Repasi and Walter Johnston of the Office of Engineering and Technology. We generally discussed issues related to broadband access technologies. The presentation centered on the attached slides, which were handed out at the meeting.

Because the discussions touched on the subject of an open proceeding concerning the development of a Rural Broadband Strategy, in accordance with Section 1.1206 of the Commission's Rules a copy of this notice is being filed via the Electronic Comment Filing System in the docket for the above-captioned proceeding. Please contact the undersigned if you have any questions with regard to this matter.

Sincerely,

/s/

Stephen L. Goodman Counsel for ADTRAN, Inc.

cc: Julius Knapp Ron Repasi

Walter Johnston

Broadband Access Technology

More Broadband per Stimulus Dollar \$

March 13, 2009



Company Overview

Reliable access for today's communications networks

- Comprehensive product portfolio > 1,700 products
- 2008 revenue \$501 million
- 2008 Product Development Investment \$82M
- 1,600 employees

Broadband Market Leadership

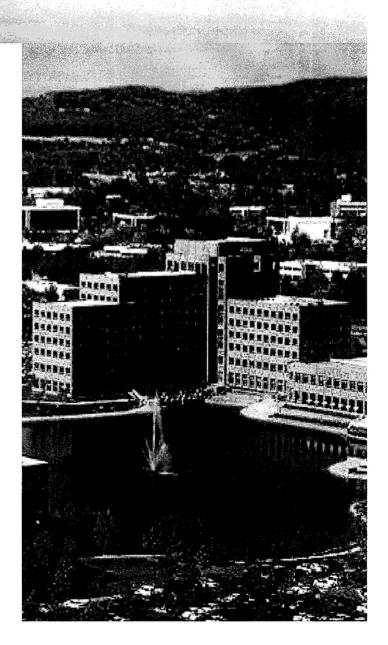
- #1 Supplier of High-Bit-Rate DSL (HDSL) Equipment
- #2 DSL Equipment Supplier in North America
- #1 Supplier of Fiber-To-The-Node Sealed Outside Plant DSLAMs
- #2 Routers, Ethernet Switches, IP Business Gateways

American Born and Bred

- Headquartered in Huntsville, AL
- US Manufacturing Huntsville, Al

Traded on NASDAQ: ADTN

- Strong Balance Sheet
- 20 year history of continuous profitability





Active Industry Participation

- Fiber to the Home Council
 - Current chair of Marketing Committee
- Broadband Forum (formerly DSL Forum)
 - Current chair of VDSL2 performance spec
- ATIS
 - Current Board Member
- IEEE (802.1, 802.3, 802.17)
 - Current chair of the RPR effort, former editor of EFM ESHDSL
- ITU
 - Editor of SHDSL standard
 - Editor of ERPS (G.8032)
- FSAN
 - G.984 GPON
- Metro Ethernet Forum (MEF)
- IETF









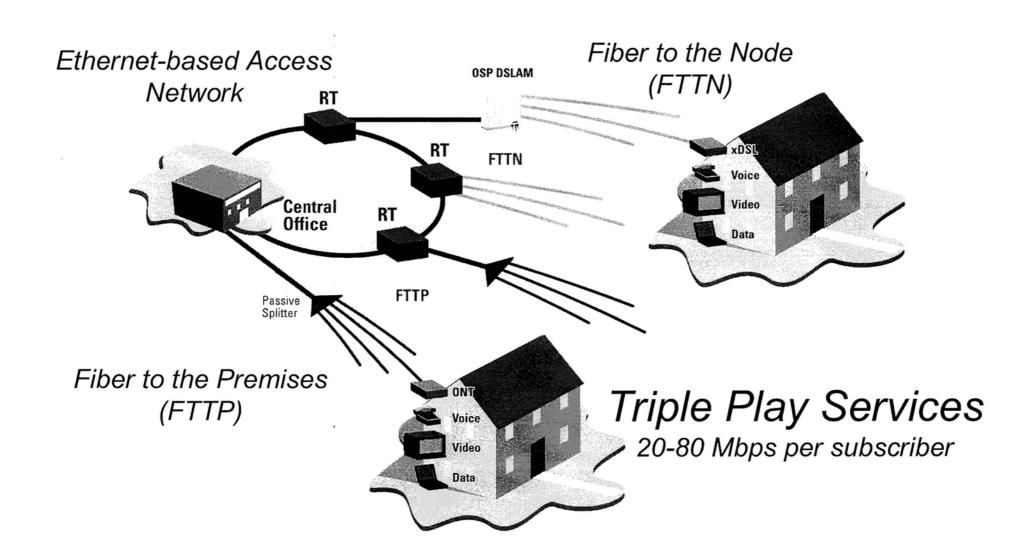








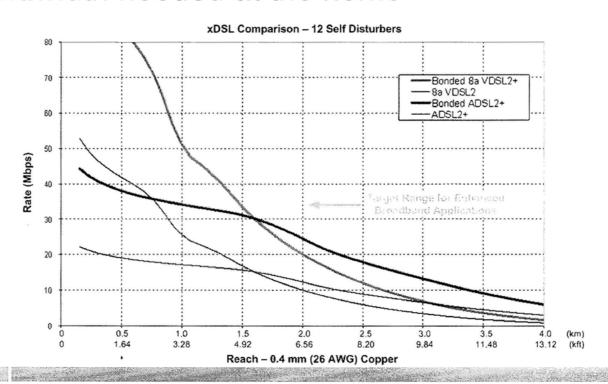
Next Generation Broadband





Which Architecture is Right?

- Studies show that as much as 70% of the cost of a Brownfield conversion from copper to fiber in last 3000'
- Industry agrees that fiber is the ultimate destination
- FTTN shorten the copper loop to cost effectively to deliver the bandwidth needed at the home

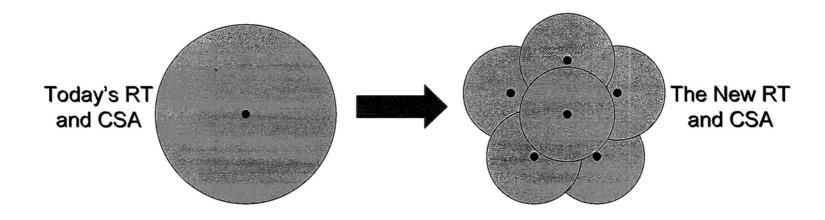




The Future of Broadband

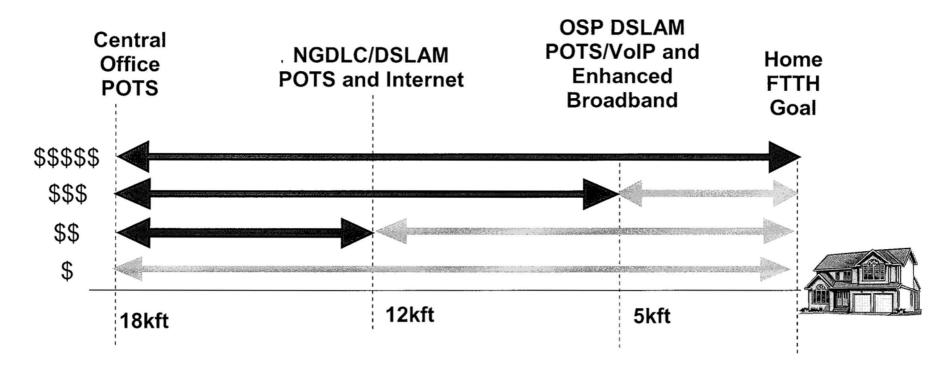
Most services require increased bandwidth

- As bandwidth requirements increase, loop length is reduced
- The existing DSLAM footprint must be augmented to compensate for these reduced loop lengths
 - Drives the need for an economical OSP DSLAM Solution (FTTN)





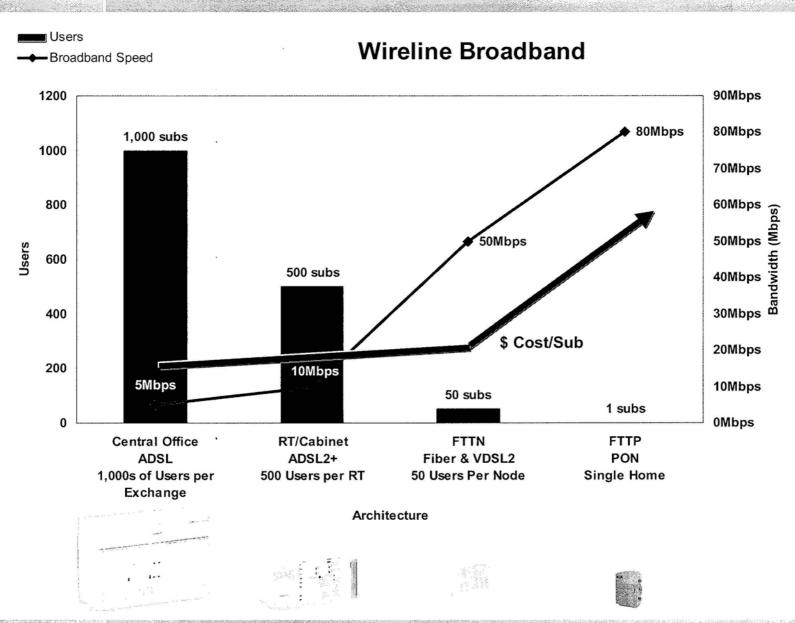
Incremental Fiber Transition Strategy



More bandwidth... more flexibility...Next Gen services



Bandwidth vs Cost





Residential Broadband

Coverage versus Capability

CO DSLAM

 Good choice for high-density areas with concentrated population centers

FTTN

 Best combination of bandwidth capability for the coverage

FTTP

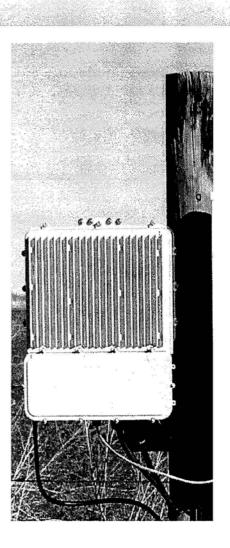
 Best bandwidth capability on the market but requires significant investment and coverage over a subscriber area is limited to where fiber is deployed

	Bandwidth		Timeliness /	Cost per
Architecture	Down	Up	Coverage	Subscriber
CO DSLAM				
ADSL	10M	1M	Quick / 50% of a wire center	\$
ADSL2+	20M	2.5M	Quick / 30% of a wire center	\$
VDSL2	50M 25M	10M 3M	Quick / 15% of a wire center	\$\$
FTTN				
ADSL2+	20M	1M	Add time for fiber feeder but re-usable / Cover 100% of Wire center	\$\$
VDSL2	50M 25M	10M 3M	Add time for fiber feeder but re-usable / Cover 100% of Wire center	\$\$\$
FTTP				
GPON	80M	40M	Depends on fiber deployments	\$\$\$\$\$



Sealed Fiber To The Node (FTTN)

- Innovative sealed design
 - Scales up to 192 total ports
 - Multiple powering options
- Cookie cutter approach simplifies installation
 - First port turn-up costs are greatly minimized
 - Works for every RT site regardless of the existing DLC
 - Leverages investments already made in power/batteries
- Eliminate noise created by fans/heat exchangers by using passively cooled OSP DSLAMs
- Can be integrated into cross-connect augments when adding capacity at sites





Deployment Costs of Cabinet vs. FTTN

- Deployment is greatly simplified using OSP DSLAMs
 - No new right of way
 - No new pad work
 - Significantly lower shipping costs
 - Installation doesn't require a crane
 - Smaller crew onsite for installation
 - No expensive heat exchanger solutions
 - Lower power requirements
- Electronics costs keep falling but total deployment costs aren't getting any cheaper
 - Metal (i.e. cabinets) keeps climbing
 - Lower density areas can't prove in due to initial circuit costs

Item Description	Cabinet DSLAM	Total Access 1100 Series	
Cost of Cabinet	\$55	None	
Cabinet Protection and Wiring	\$\$	Integrated	
Power System with Batteries	\$\$	\$ (span powering)	
Power Pedestal	\$	None	
Concrete Pad and Pad work	\$\$	None	
Labor Cost	22		
Cost of Crane	\$	None	
Permits and Right of Way	\$\$	None	
Site Prep	\$\$	None	
Shipping	\$\$	\$	
Solutions Engineering	\$88	SS	
Deployment Speed	Construction can take more than a month	1 day	
Revenue Losses Due to Installation Delays for Construction	Variable	None	
Cost of Land Purchase or Lease	Variable	None	
Total Deployment Cost	\$25,000-\$35,000	\$5,000-\$7,000	



Summary

- "Unserved" communities should have grant priority
 - Get broadband to all Americans
 - Deploy the maximum broadband subs per stimulus dollar \$
- Allow Service Providers to draw from a full tool box of broadband solutions to best address target serving areas
 - DSLAMs, Remote DSLAMs, FTTN, FTTP
 - Broadband speed definitions will dictate solution
- "Buy American" provision was intended to ensure that the maximum number of jobs were created in the United States, and the broadband grant and loan programs should honor that intent.

Adtran, Inc. 2007 All rights reserved

rected Worl



